

White paper
January 2011

Sony Ericsson Cedar™ J108i, J108a



Purpose of this document

Sony Ericsson product White papers are intended to give an overview of a product and provide details in relevant areas of technology.

Document history

Version

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Sony Ericsson Developer World

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Product overview

Sony Ericsson Cedar™ – How is everyone?

When's the party? What drink is flavour of the month? Who's just joined the group? Share your smiles the easy way. Flick through apps you love, like Facebook™*, Twitter™* or MySpace™ in the Widget Manager. Then jump in with just a click. Got it? Flaunt it.

Take it easy

On the train? Or waiting for the plane? No big deal. Work and play the easy way. Check your favourite sites, starting with the ones you use most. Check your diary, or check on the kids. You're always in the office with Sony Ericsson Cedar™, if you want to be. Use it as a phone. Text machine. Your inbox. A 3G modem with your laptop. Or your social networking friend.

Keep your friends with you - everywhere

Dropped your phone? Don't worry. You haven't dropped all your friends. Or your meetings. Back up your contacts and your calendar with Sony Ericsson Sync. Online. Always.

And transferring content from your old phone** is easy. Just save your contacts onto the SD card, pop it into Sony Ericsson Cedar™, and everything looks like it should. It's great to stay connected, isn't it?

Good to be sociable, great to be green

Sony Ericsson Cedar™ is a GreenHeart™ phone, where less is definitely more. Eco-smart, without compromising on features or design.



* This service is not available in all markets.

** Transfer works with S40 and S60 phones.

Facts – dimensions, weight, performance and networks

Size	111 x 49 x 15.5 mm
Weight	84 grams
Available colours	Black/Red Black/Silver
Main screen	
Colours	262,144 colour TFT
Resolution	240x320 pixels (QVGA)
Size (diagonal)	2.2 inches
Input mechanisms	
Text input	Quick text (Zi)
Memory	
Phone memory	Up to 280 MB
Memory card support	microSD™, up to 16 GB
Camera	
Camera resolution	2 megapixel
Digital zoom	2.5x
Video recording	Yes, MPEG4 (VGA)
Networks	
J108i	UMTS HSPA 2100 (Band I) GSM GPRS/EDGE 850, 900, 1800, 1900
J108a	UMTS HSPA 850 (Band V), 1900 (Band II), 2100 (Band I) GSM GPRS/EDGE 850, 900, 1800, 1900
Data transfer speeds	
GSM GPRS (Class 10 CS4)	Up to 80 kbps (download). Up to 40 kbps (upload)
GSM EDGE (Class 10 MCS9)	Up to 247 kbps (download). Up to 123 kbps (upload)
UMTS HSPA (cat. 8 download)	Up to 7.3 Mbps
UMTS HSPA (cat. 5 upload)	Up to 2.0 Mbps
Talk time (GSM)	4 hours 40 min *
Standby time (GSM)	415 hours *

* According to GSM Association Battery Life Measurement Technique.

Talk time (UMTS)	3 hours 30 min *
Standby time (UMTS)	485 hours *
Battery	1000 mAh

* According to GSM Association *Battery Life Measurement Technique*.

Note: Battery performance may vary depending on network conditions and configuration, and phone usage.

Full feature list – categorised list of features

 <p>Camera</p> <p>2 megapixel camera 2.5x digital zoom Geo tagging Photo fix Photo feeds Send to web (photos and videos) Video recording</p>	 <p>Music</p> <p>Bluetooth stereo (A2DP) Media player Music tones (MP3/AAC) PlayNow™ service * TrackID™ application</p>	 <p>Internet</p> <p>Bookmarks Google search Netfront™ 3.5) Pan & zoom Web browser (Access Web feeds</p>
 <p>Communication</p> <p>Call list Conference calls Facebook™ application * Polyphonic ringtones Speakerphone Twitter™ application * Vibrating alert Video calling (main camera)</p>	 <p>Messaging</p> <p>Conversations Email Microsoft® Exchange Active-Sync® Instant messaging Picture messaging (MMS) Predictive text input Sound recorder Text messaging (SMS)</p>	 <p>Design</p> <p>Navigation key Picture wallpaper Wallpaper animation</p>
 <p>Entertainment</p> <p>3D games Java™ Radio (FM) Video streaming Video viewing YouTube™ *</p>	 <p>Organiser</p> <p>Alarm clock Calculator Calendar Flight mode Notes Phone book Stopwatch Tasks Timer Widget manager</p>	 <p>Connectivity</p> <p>3.5 mm audio jack Bluetooth™ technology Google Maps™ Modem Synchronisation USB mass storage USB support</p>

* This service is not available in all markets.

Technologies in detail

NOTE: The information outlined below is general and levels of compliance to standards and specifications may vary between products and markets. For more information, contact Sony Ericsson Developers World or your Sony Ericsson contact person where applicable.

Device-to-device communications (local)

Bluetooth™ wireless technology

Bluetooth™ profiles supported	Advanced Audio Distribution Profile Audio/Video Remote Control Profile Basic Imaging Profile Dial-up Networking Profile File Transfer Profile Generic Access Profile Generic Object Exchange Profile Handsfree Profile Headset Profile Object Push Profile Personal Area Networking Profile Phonebook Access Profile Serial Port Profile Synchronisation Profile SyncML™ OBEX binding
Core version and supported features	2.1+EDR
Connectable devices	Interoperability and compatibility among Bluetooth™ devices varies. The device generally supports products utilising Bluetooth™ spec. 1.1, or higher, and at least one of the profiles above.

More information:

www.sonyericsson.com/developer

www.bluetooth.com

Java™

Java™ Platform, Micro Edition	JSR-75 PDA Optional Packages for J2ME™ JSR-82 Bluetooth™ Wireless Technology API JSR-118 MIDP 2.0 JSR-118 MIDP 2.1 JSR-120 Wireless Messaging API JSR-135 Mobile Media API 1.2 JSR-139 CLDC 1.1 JSR-172 J2ME™ Web Services Specification JSR-177 Security and Trust Services API for J2ME™ JSR-179 Location API JSR-180 SIP API for J2ME™ JSR-184 Mobile 3D Graphics API for J2ME™ JSR 185 Java™ Technology for the Wireless Industry JSR-205 Wireless Messaging API 2.0 JSR-211 Content Handler API JSR-226 SVG API for J2ME™ JSR-229 Payment API JSR-234 Advanced Multimedia Supplements JSR-238 Mobile Internationalization API JSR-239 OpenGL® ES JSR-248 Mobile Services Architecture JSR-256 Mobile Sensor API (Accelerometer) Nokia UI Extension API
Java 3D	MascotCapsule® Micro3D Version 3 JSR-239 OpenGL® ES JSR-184 Mobile 3D Graphics API for J2ME™

Messaging

(MMS) Multimedia Messaging Service

According to OMA Multimedia Messaging Service v1.2 + SMIL

Email

Bearer type (IP)	GSM Data (IP) GPRS and HSCSD
Character sets	USASCII UTF-7 UTF-8 UTF-16 UTF-17LE UTF-16BE UCS-2 / ISO10646 UCS2 ISO-8859-1 ISO-8859-2 Eastern Europe ISO-8859-5 Cyrillic ISO-8859-7 Greek ISO-8859-9 Turkish ISO-8859-10 Nordic ISO-8859-11 Thai ISO-8859-15 Western MR5 KOI8 GB18030 Simplified Chinese GB2312 Simplified Chinese BIG5 ISO2022JP Windows® 1251 Cyrillic Windows® 1252 Windows® 1254 Turkish Windows® 1255 Hebrew Windows® 1258 Vietnamese Shift JIS Note: GB2312 is available in Simplified Chinese variants only, that is, Mainland China variants. BIG5 is only available in Traditional Chinese variants, that is, Hong Kong and Taiwan variants.
OTA provisioning solution	OMA Client Provisioning 1.1
Protocols	POP3, SMTP and IMAP4
Push email	IMAP IDLE (extension of IMAP4 Rev1), OMA Email Notification 1.0 and scheduled checking, Microsoft® Exchange ActiveSync® (EAS)
Secure email	SSL/TLS, both port methods (POPS/IMAPS) and START-TLS
HTML mail	Yes

More information: www.sonyericsson.com/developer, www.openmobilealliance.org

Provisioning (OMA CP, OMA DM)

OMA CP version 1.1

OMA DM version 1.2

Related information:

www.sonyericsson.com/developer

Synchronisation (OMA DS, EAS)

OMA Data Synchronisation protocol versions 1.1.2 and 1.2

OMA Data Formats: vCard 2.1, vCalendar 1.0, vBookmark 1.0, notes as text/plain

Microsoft® Exchange ActiveSync® protocol version 2.5

Related information

www.sonyericsson.com/developer

Multimedia (audio and video)

Audio Playback	Decoder format Audio decoding MPEG-1/2/2.5, audio layer 3 AAC, AAC+, eAAC+ AMR-NB WMA versions 2, 7, 8: Class 1 WMA version 9: Level 3 WMA Pro (profile M0a) General MIDI (GM) GML SP-MIDI DLS (Mobile DLS supported) Linear/A-law/-.law PCM iMelody	Supported in file format MP3 (.mp3) 3GP (.3gp); AAC (.aac); MP4 (.mp4, .m4a) 3GP (.3gp); AMR (.amr) WMA (.wma) WMA (.wma) WMA (.wma) SMF (.mid) SMF (.mid) SMF (.mid); XMF (.xmf, .mxmf) XMF (.xmf) WAV (.wav) iMelody (.imy)
Audio Recording	Encoder format AMR-NB AAC-LC	Supported in file format AMR (.amr) MP4 (.m4a)
Video Playback	Decoder format MPEG-4 Visual Simple Profile H.264 Baseline Profile H.263 Profile 0 VC-1 (WMV9)	Supported in file format 3GP (.3gp); MP4 (.mp4) 3GP (.3gp); MP4 (.mp4) 3GP (.3gp) ASF (.ASF, .WMV)
Video Recording	Encoder format - Video: H.263 Profile 0 - Audio: AMR-NB - Video: MPEG-4 Visual Simple Profile - Audio: AAC-LC	Supported in file format 3GP (.3gp) MP4 (.mp4)
Audio/Video Streaming	Streaming transport	RTSP according to 3GPP™
DRM	DRM (Digital Rights Management) features the rights and copy protection of downloaded content.	OMA DRM 1.0, 2.0, 2.1 Microsoft® DRM Janus

Web browser

Browser version	Access NetFront™ 3.5
Bookmarks	Folders and sorting supported
Bookmark export/import	Bookmarks can be sent and received in vBookmark format using Bluetooth™ technology, SMS, MMS and email
Navigation/rendering	Pan & Zoom (page overview model) Landscape/portrait rendering Full page PC rendering
Search	Internet Search Find on page
Browser compliancy	HTML 5.0 Canvas HTML version 4.01 XHTML Basic version 1.0 XHTML version 1.1 XHTML Mobile Profile version 1.1 WML 1.3 CSS 2.1 WCSS Version 26-Oct-2001 ECMA-script 262 3rd edition ECMAScript Mobile Profile 1.0 HTTPXMLRequest AJAX DOM 2.0 SVG Tiny, version 1.2
Browser plugin	SVG-T Adobe™ Flash Lite™ Audio/Video
Web feeds	Feeds detection in Browser Feeds reader Podcasting
Web albums	Publish to Picasa™ site Publish to a social site Publish to a Blogger™ page Publish to a Flickr™ page
Protocol Compliancy	HTTP/1.1 TLS 1.0 and SSL 3.0 OMA Download 1.0 RSS 2.0

Related information: www.access-company.com/products/mobile_solutions

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